User Manual

April 2010 Revision 1.1

POSEO 5100

Hardware System

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Manual Version 1.1

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrial power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart,stand,or table.The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation;to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered.The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.This product should never be placed near or over a radiator or heat register,or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label.If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK

CE This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”.

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

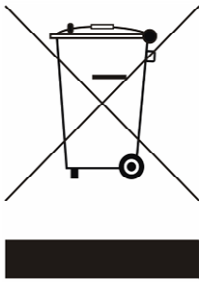
(2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

LEGISLATION AND WEEE SYMBOL

2002/96/EC Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Revision Number	Description	Revision Date
1.0	Initial release	May 2008
1.1	Updated specification table Added Appendix B: Dimensional drawings	April 2010

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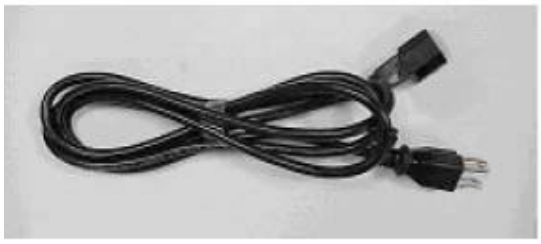
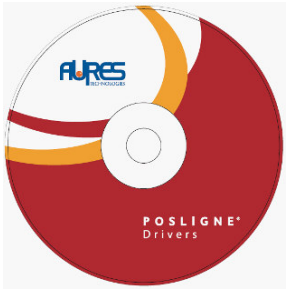
1. Packing List

Take the system unit out of the carton. Remove the unit from the carton by holding it by the foam inserts. The following contents should be found in the carton:



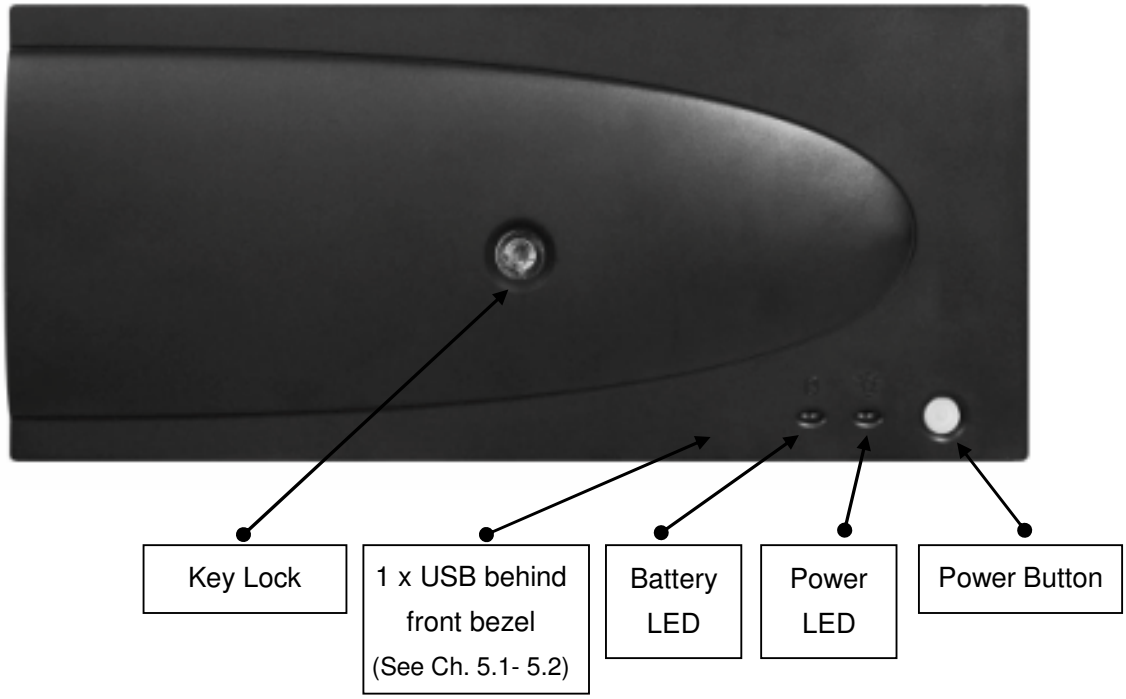
a. Power Cable



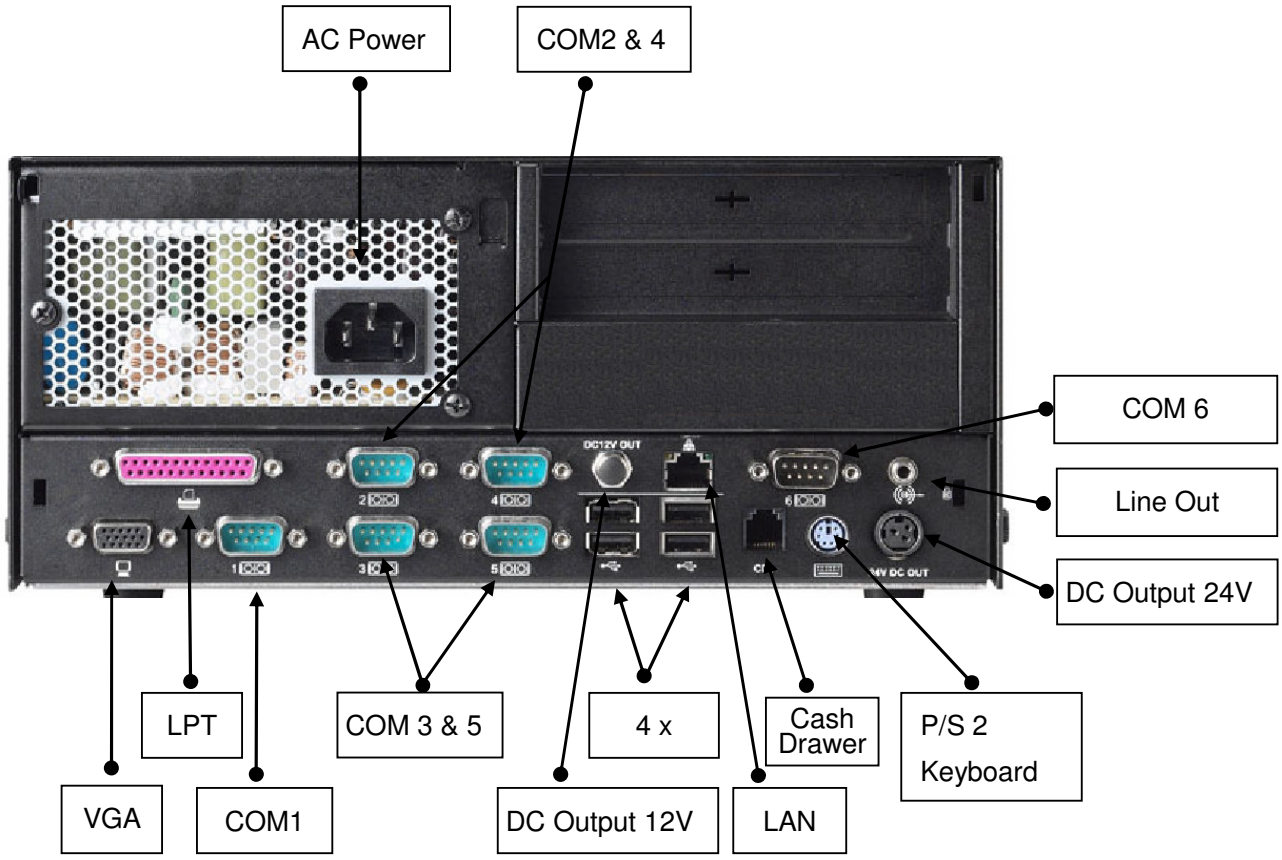
b. Driver CD

2. System View

2.1 Front View



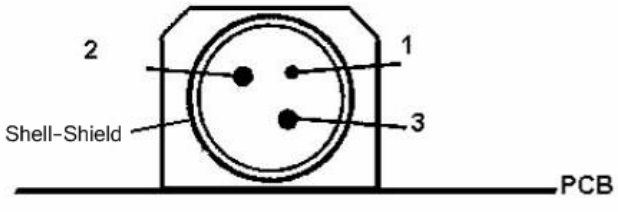
2.2 I/O View



Note: The maximum current that can be drawn from each COM port is 500 mA.

Pin	Assignment
1	NC
2	+ 24V DC
3	GND

DC output 24V Pin Assignment



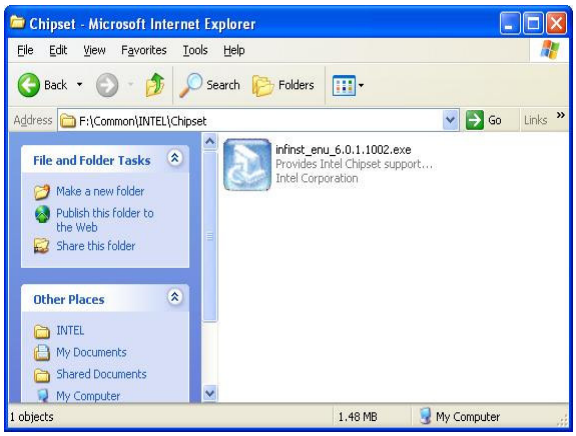
3. Driver Installation

3.1 Driver List

Folder/File	File Description
<CD>:\Poseo_5100.htm	B89 Driver List
<CD>:\Common\INTEL\Chipset\i8xx	Chipset Driver
<CD>:\COMMON\INTEL\VGA\i85x\Win2K_XP\CRT_only\IEGD51-FT2a	VGA IEGD Driver
<CD>:\Common\Ac97_codec\Realtek\ALC202A	Audio Driver
<CD>:\COMMON\Lan_driver\R8139_810x	10/100Mb LAN Driver

-The following procedures are for Windows XP, other platforms are similar.

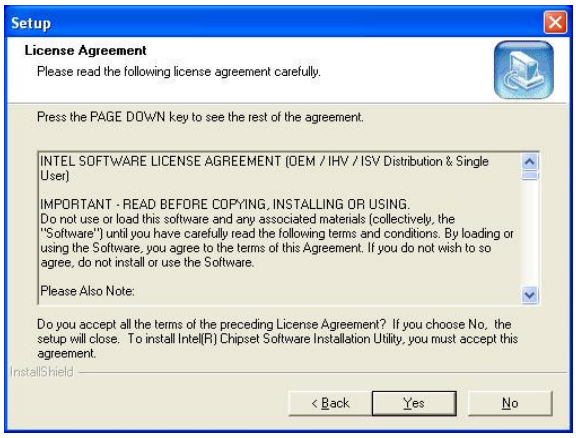
3.2 Chipset Driver Installation



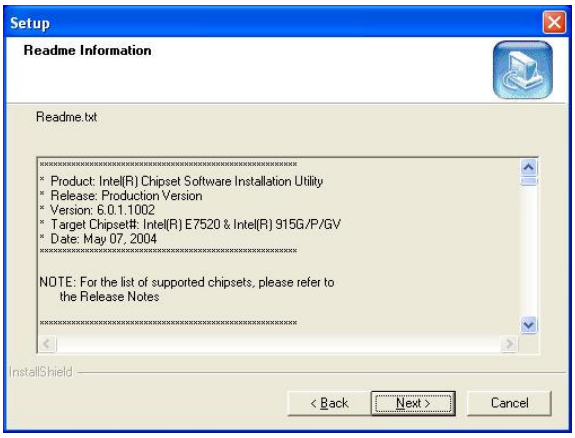
a. Double click on “infinst_enu_6.0.1.1002” in the My Computer window.

Setup
Welcome to the InstallShield(R) Wizard for Intel(R) Chipset Software Installation Utility
Welcome to the Intel(R) Chipset Software Installation Utility. This utility will enable Plug & Play INF support for Intel(R) chipset components.
< Back
Next >
Cancel

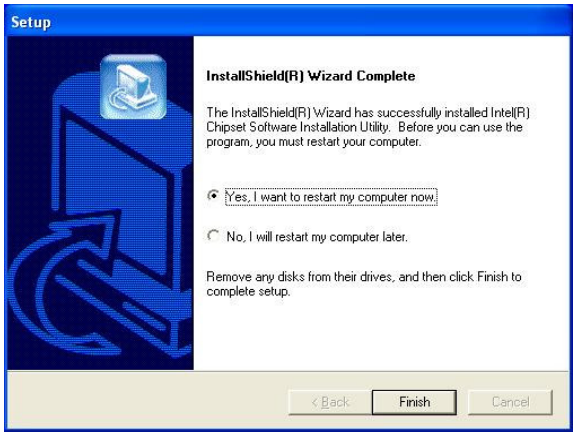
b. Click “Next”.


Setup
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Intel(R) Chipset Software Installation Utility, you must accept this agreement.
InstallShield
< Back
Yes
No

c. Click “Yes”.


Setup
Readme Information
Readme.txt
* Product: Intel(R) Chipset Software Installation Utility
* Release: Production Version
* Version: 6.0.1.1002
* Target Chipset#: Intel(R) E7520 & Intel(R) 915G/P/GV
* Date: May 07, 2004
NOTE: For the list of supported chipsets, please refer to the Release Notes
InstallShield
< Back
Next >
Cancel

d. Click ”Next”.

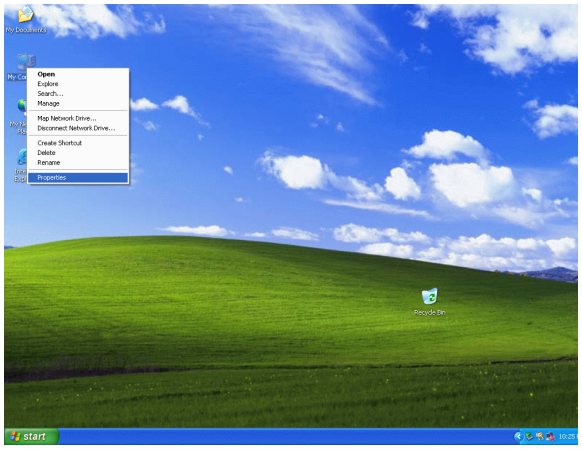

Setup
InstallShield(R) Wizard Complete
The InstallShield(R) Wizard has successfully installed Intel(R) Chipset Software Installation Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

e. Click the “Finish” button to restart your system.

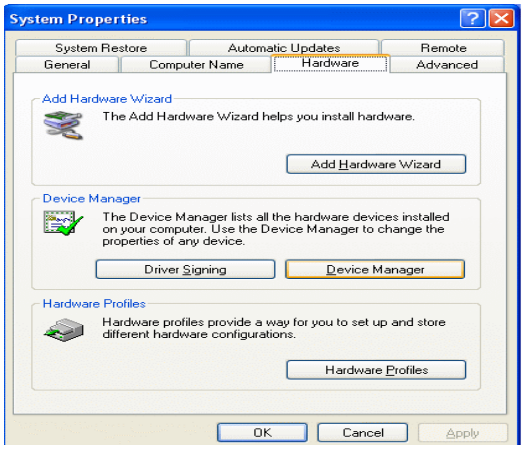
3.3 USB 2.0 Driver Installation

OS Requirements

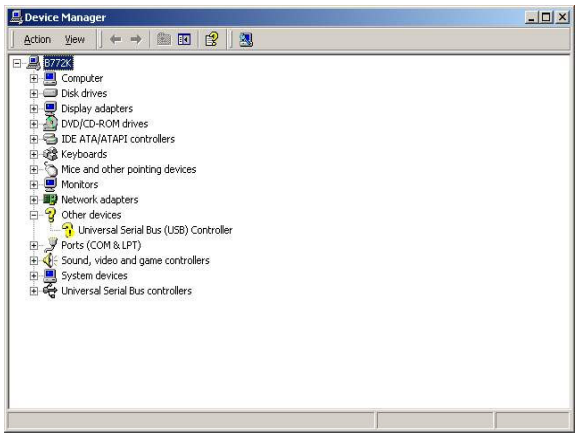
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update.
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer site.
Windows 98 (Retail)	Developers and OEMs should contact Orange Ware. For end-users, if your device does not ship with Windows 98 drivers, contact your device or system manufacturer. If USB 2.0 drivers are not available, your device will operate at USB 1.1 speeds
Linux	USB 2.0 support is available in kernel 2.4.19 or later development kernels, or in the 2.4.19 or later production kernel. More information.

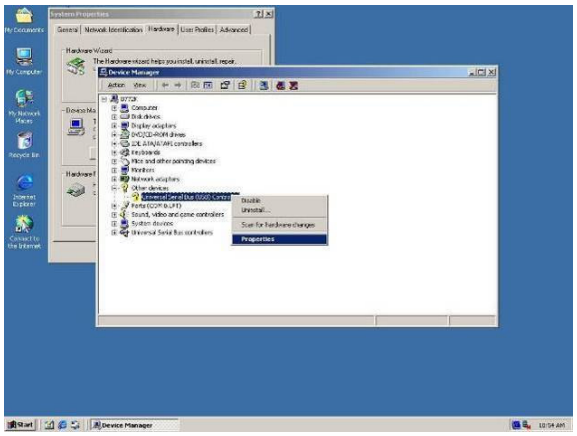


a. Right click the My Computer icon on the desktop and select “properties”

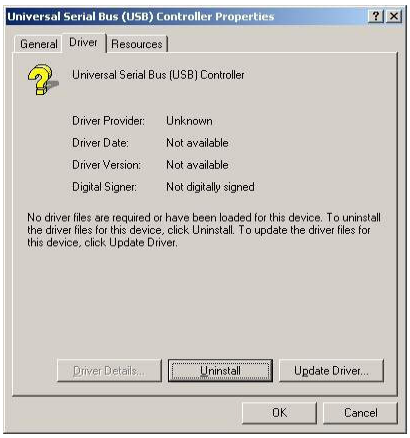


b. Select “Hardware”→”Device Manager”.





c. Select ”Other Devices” → “Universal Serial Bus (USB) Controller” →”Properties”.


Universal Serial Bus (USB) Controller Properties
General
Driver
Resources
Universal Serial Bus (USB) Controller
Driver Provider: Unknown
Driver Date: Not available
Driver Version: Not available
Digital Signer: Not digitally signed
No driver files are required or have been loaded for this device. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

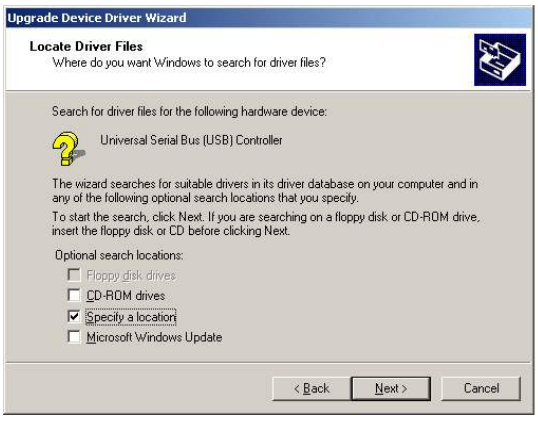
d. Select “Device”→ “Update Driver…”.

Upgrade Device Driver Wizard
Welcome to the Upgrade Device Driver Wizard
This wizard helps you upgrade a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

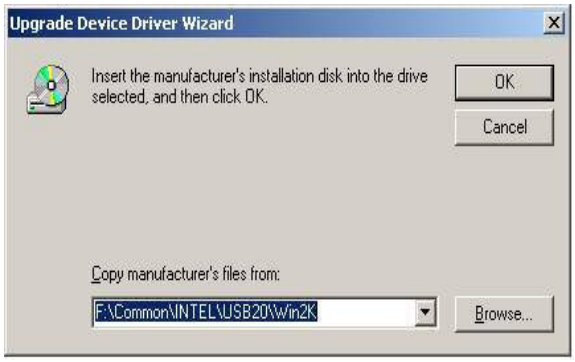
e. Click ”Next”.

Upgrade Device Driver Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Universal Serial Bus (USB) Controller
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

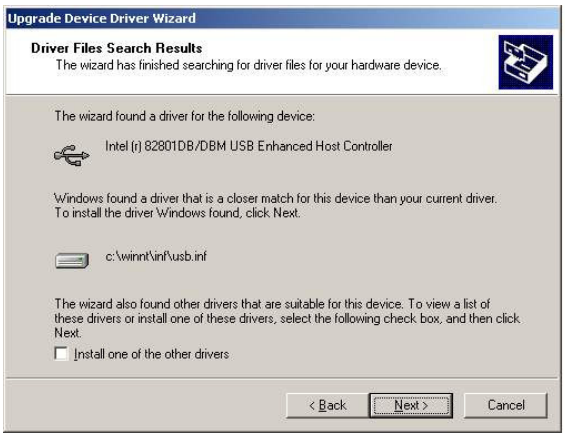
f. Select “Search for a suitable…”and click “Next”.


Upgrade Device Driver Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Universal Serial Bus (USB) Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

g. Select “Specify a location” and click “Next”.



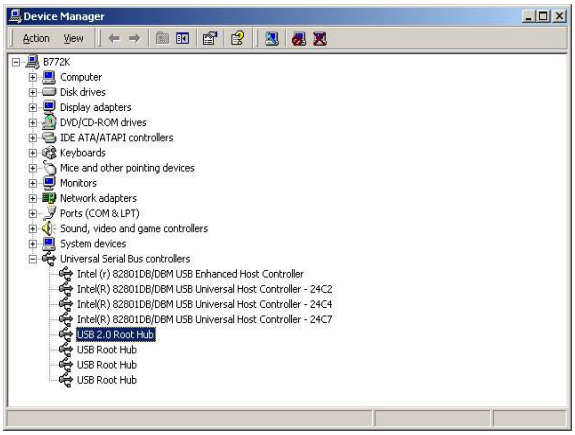
h. Click on the “Browse” button to select the driver and then click “OK” to go to the next page.


Upgrade Device Driver Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Intel (r) 82801DB/DBM USB Enhanced Host Controller
Windows found a driver that is a closer match for this device than your current driver.
To install the driver Windows found, click Next.
c:\winnt\inf\usb.inf
The wizard also found other drivers that are suitable for this device. To view a list of these drivers or install one of these drivers, select the following check box, and then click Next.
Install one of the other drivers
< Back
Next >
Cancel

i. Click “Next”.

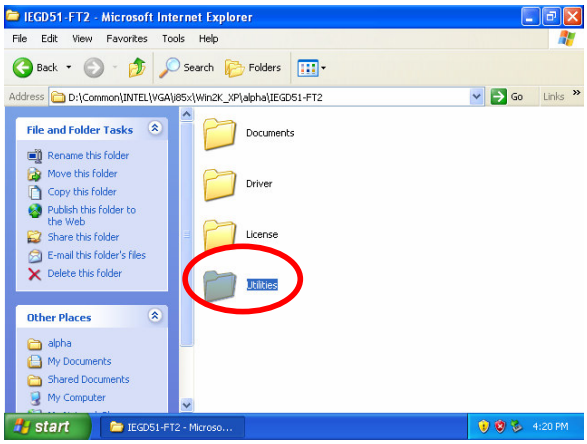
Upgrade Device Driver Wizard
Completing the Upgrade Device Driver Wizard
Intel (r) 82801DB/DBM USB Enhanced Host Controller
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

j. Click on the “Finish” button to complete this process.

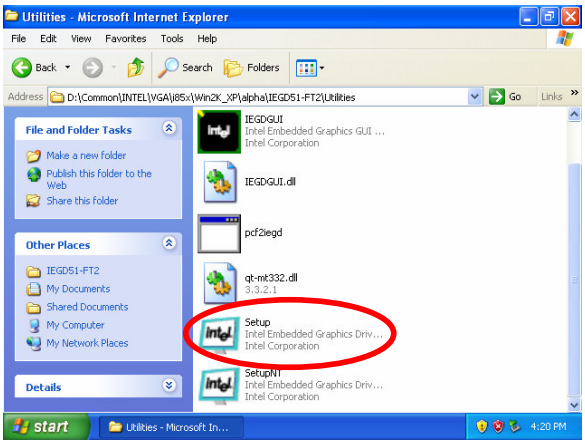


k. Finished.

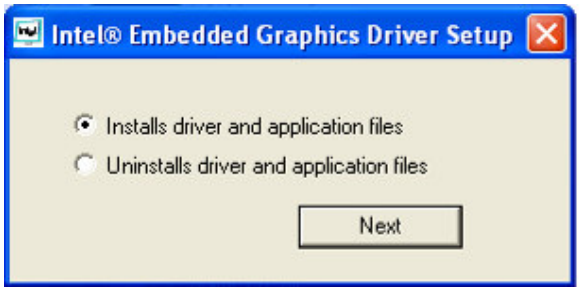
3.4 VGA IEGD Driver Installation



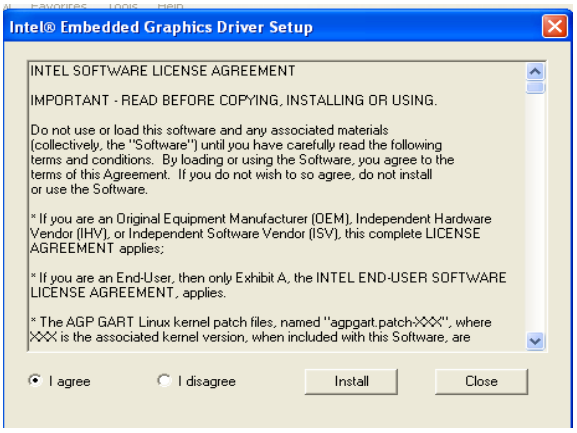
a. Select “Utilities” In the My Computer window.



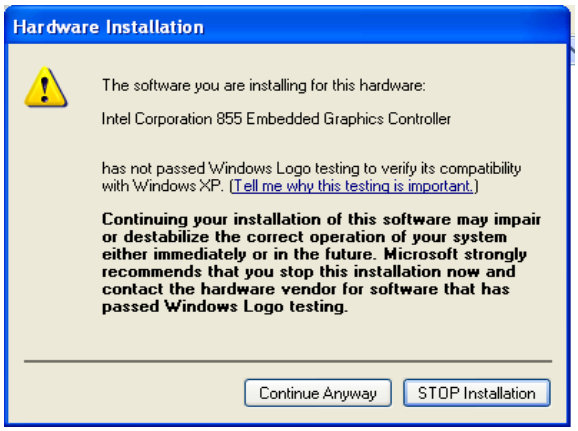
b. Double click the “Setup” icon.


Intel® Embedded Graphics Driver Setup
Installs driver and application files
Uninstalls driver and application files
Next

c. Select “Installs driver and application files” and click the “Next”.


Intel® Embedded Graphics Driver Setup
INTEL SOFTWARE LICENSE AGREEMENT
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
* If you are an End-User, then only Exhibit A, the INTEL END-USER SOFTWARE LICENSE AGREEMENT, applies.
* The AGP GART Linux kernel patch files, named "agpgart.patch-XXX", where XXX is the associated kernel version, when included with this Software, are
I agree
I disagree
Install
Close

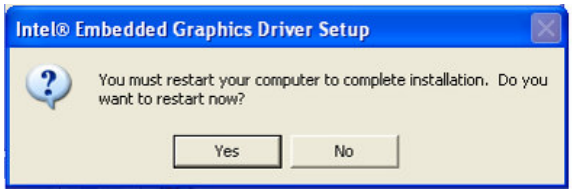
d. Select “I agree” and click on the “Install” button.


Hardware Installation
The software you are installing for this hardware:
Intel Corporation 855 Embedded Graphics Controller
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

e. Click “Continue Anyway”.

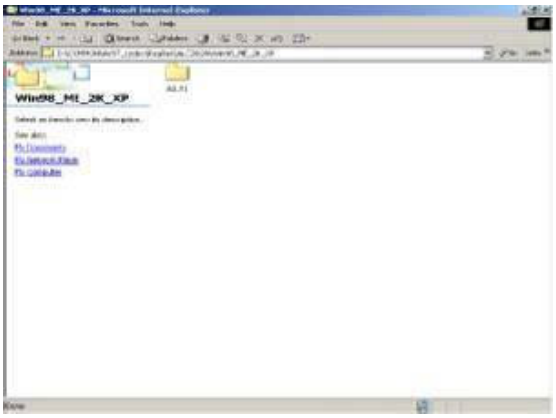
Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

f. Select “No, not this time” and click “Next”.

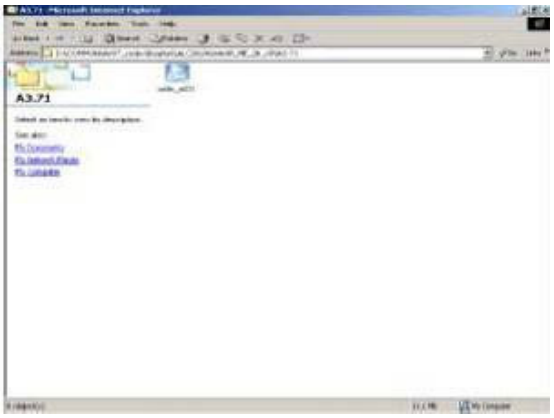

Intel® Embedded Graphics Driver Setup
You must restart your computer to complete installation. Do you want to restart now?
Yes
No

g. Click “Yes” to restart your system.

3.5. Audio Driver Installation



a. Click “A3.71” in the My Computer window.

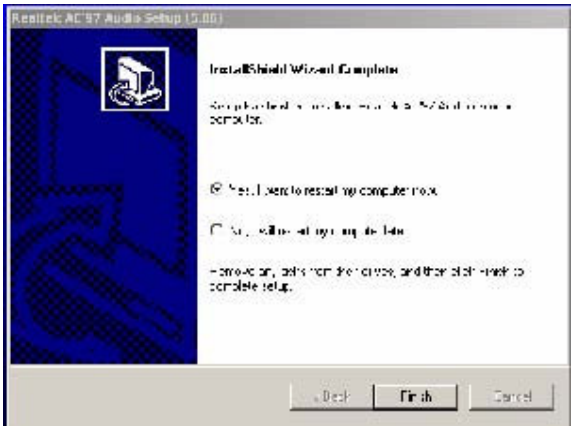


b. Double click the “wdm_a371” icon.

c. Click “Next”.

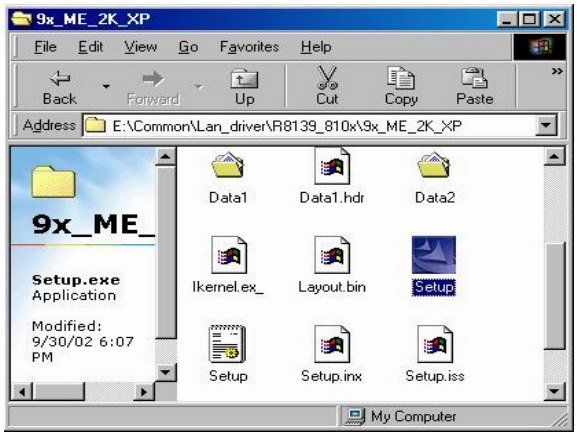
Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Realtek AC'97 Audio
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

d. Click “Yes”.

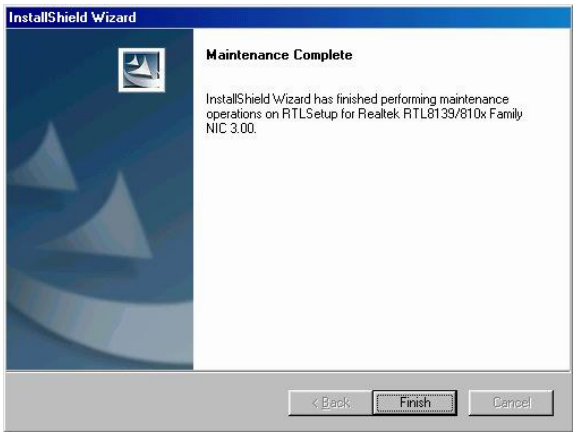


e. Click “Finish”.

3.6 LAN Driver Installation



a. Double click ”Setup” in the My Computer window.



b. Click “Finish”.

Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Choose one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

c. Click ”OK” to restart your system.

4. Peripherals Installation

4.1. Cash Drawer Installation

You can install a cash drawer through the Cash Drawer port.
Please verify the pin assignment before installation.

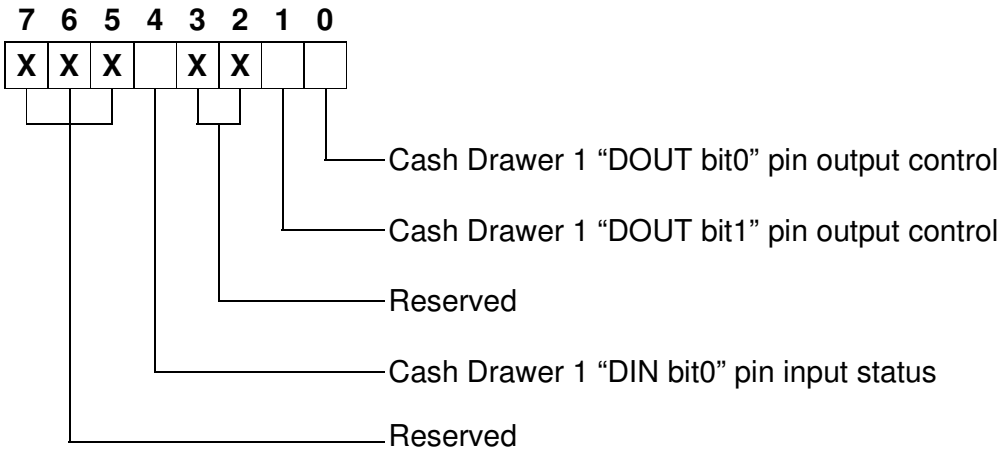
4.1.1 Cash Drawer Pin Assignment

Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V/24V
5	DOUT bit1
6	GND

4.1.2 Cash Drawer Controller Register

The Cash Drawer Controller uses one I/O address to control the Cash Drawer.

Register Location: 48Bh
Attribute: Read / Write
Size: 8 bits


7 6 5 4 3 2 1 0
X X X X X
Cash Drawer 1 “DOUT bit0” pin output control
Cash Drawer 1 “DOUT bit1” pin output control
Reserved
Cash Drawer 1 “DIN bit0” pin input status
Reserved

Bit 7: Reserved

Bit 6: Reserved

Bit 5: Reserved

Bit 4: Cash Drawer “DIN bit0” pin input status.

= 1: the Cash Drawer closed or no Cash Drawer.

= 0: the Cash Drawer opened.

Bit 3: Reserved.

Bit 2: Reserved.

Bit 1: Cash Drawer “DOUT bit1” pin output control.

= 1: Opening the Cash Drawer

= 0: Allow closing the Cash Drawer

Bit 0: Cash Drawer “DOUT bit0” pin output control.

= 1: Opening the Cash Drawer

= 0: Allow closing the Cash Drawer

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

4.1.3 Cash Drawer Control Command Example

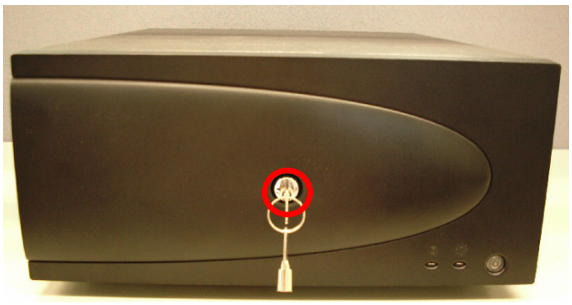
Use Debug.exe program under DOS or Windows98

Command	Cash Drawer
O 4B8 01	Opening
O 4B8 00	Allow to closing
➢ Set the I/O address 4B8h bit0 =1 for opening the Cash Drawer by “DOUT bit0” pin control. ➢ Set the I/O address 4B8h bit0 = 0 to allow closing Cash Drawer.	

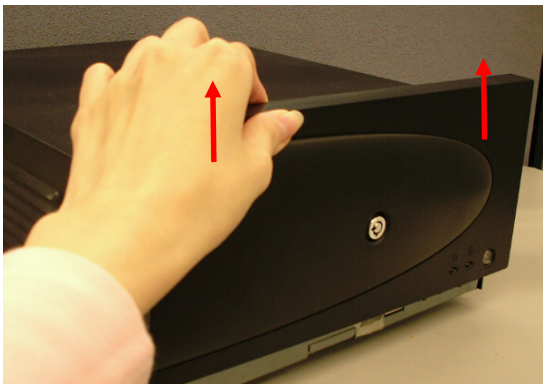
Command	Cash Drawer
I 4B8	Check status
➢ The I/O address 4B8h bit4 =1 means the Cash Drawer is closed or no Cash Drawer. ➢ The I/O address 4B8h bit4 =0 means the Cash Drawer is open.	

5. System Disassembly

5.1. Removing the Front Cover



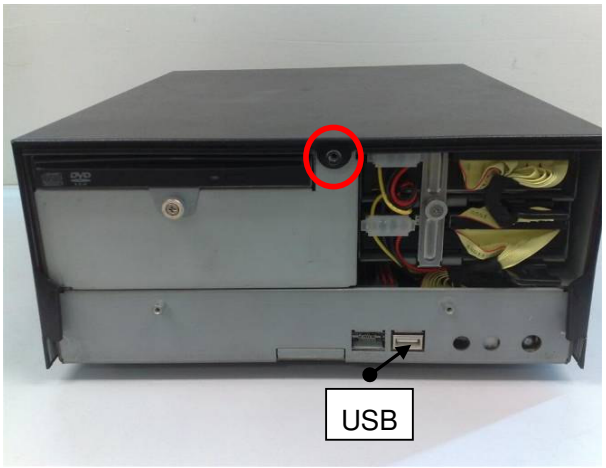
a. Use the key to unlock the front cover.



b. Lift the front cover up as shown by the arrows and remove it.

5.2 Removing the Top Cover

To remove the top cover, please follow the steps as described in chapter 5.1.



a. Remove the screw (1)

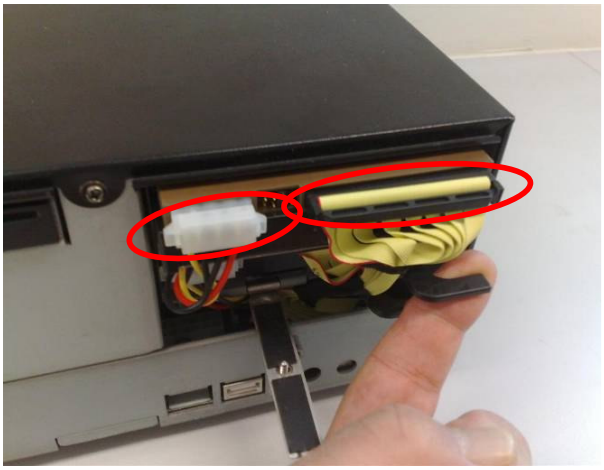
Note: You can access the front USB connector after removing the front cover.

b. Loosen the thumb screws (4 - two on each side) to release the top cover from the system.

5.3 Replacing the HDD

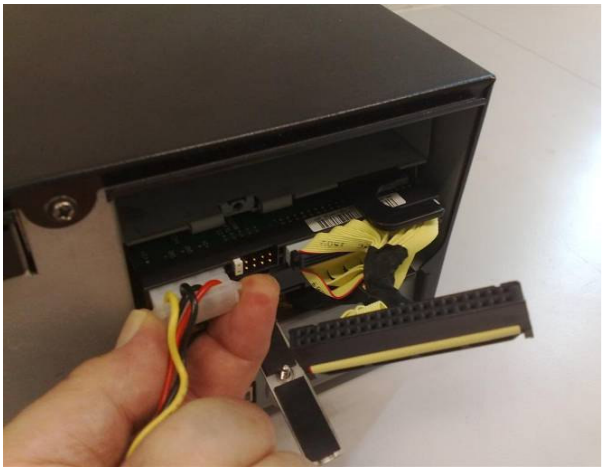
To remove the front cover, please follow the steps as described in chapter 5.1.

a. Loosen the thumb screw (1).



b. Pull the locking bar down. Pull the handle to slide out the HDD a few cm. Disconnect the two cables

c. Now slide the HDD out completely and remove it from the system.

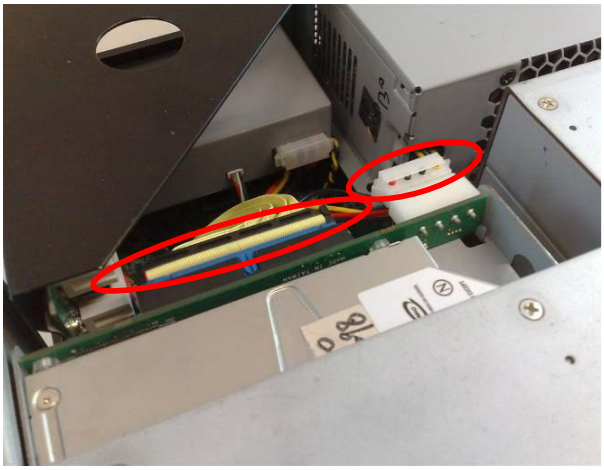


d. Repeat for the second HDD (if present).

5.4. Replacing the DVD-ROM (Option)

To remove the front and top covers, please follow the steps as described in chapter 5.1 - 5.2

a. Loosen the thumb screw (1)

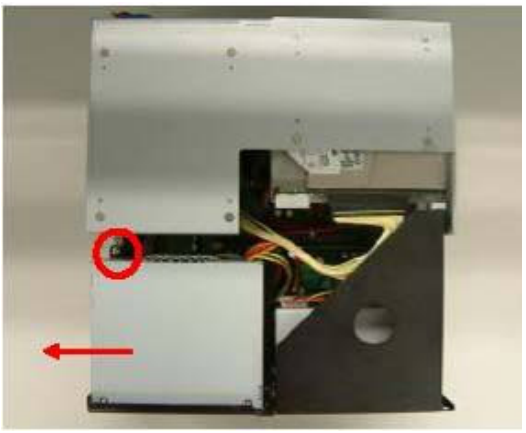


b. Disconnect the two cables from the DVD-ROM unit.

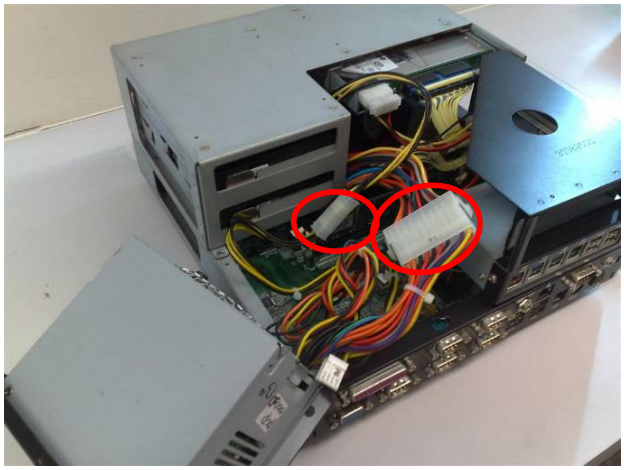
c. Slide out the CD-ROM/DVD-ROM unit.

5.5. Replacing the Power Supply

To replace the power supply, please follow the steps as described in chapter 5.1 and 5.2



a. Remove the screw (1) and slide the power supply outwards.



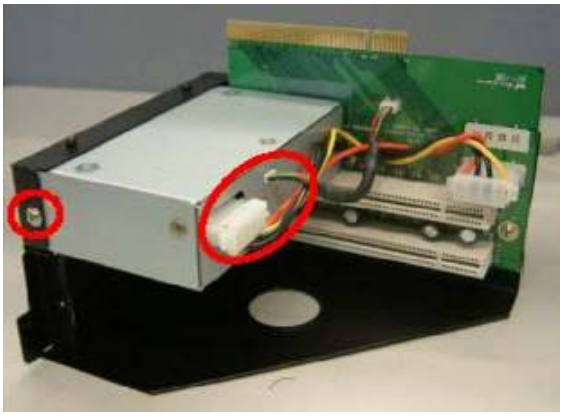
b. Disconnect the cables (2) and remove the power supply.

c. Remove the screws (3) to separate the power supply from the frame.

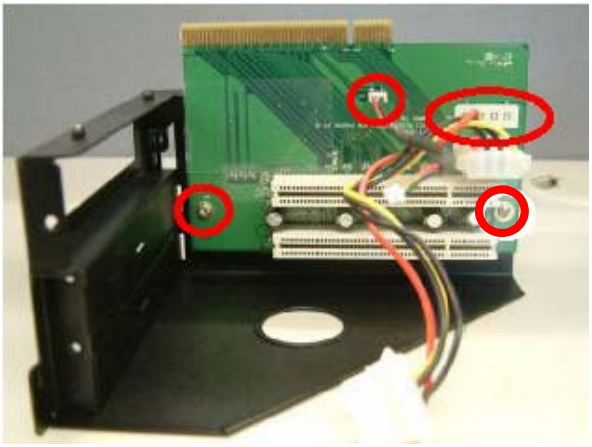
5.6. Replacing the USB Hub & PCI Extension Module (Options)

To replace the I/O and PCI extension module, please follow the steps as described in chapter 5.1 and 5.2

a. Remove the extension module by gently pulling it upwards taking care not to damage the connector.



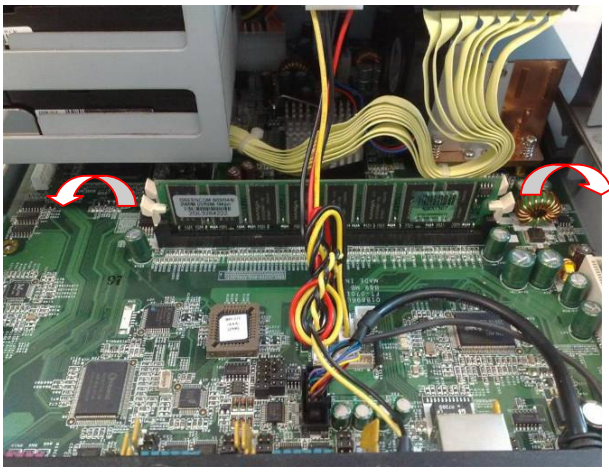
b. Remove the screws (2) and disconnect the cables (3) to remove the USB hub from the holder.



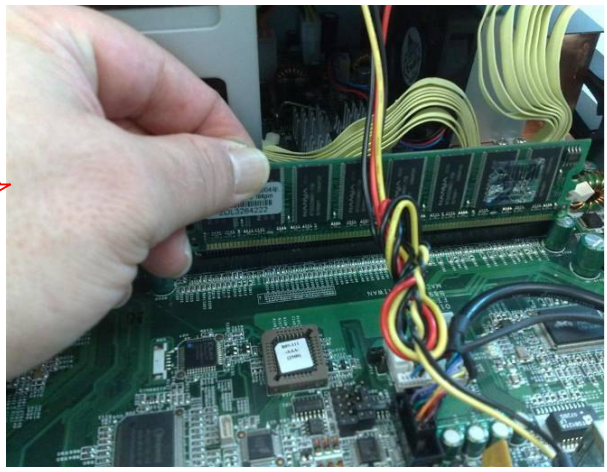
c. Disconnect the cables (2) and remove the screws (2) to release the PCI riser card from the holder.

5.7. Replacing the Memory

To replace the memory, please follow the steps as described in chapter 5.1, 5.2 , 5.5(a+b) and 5.6(a)



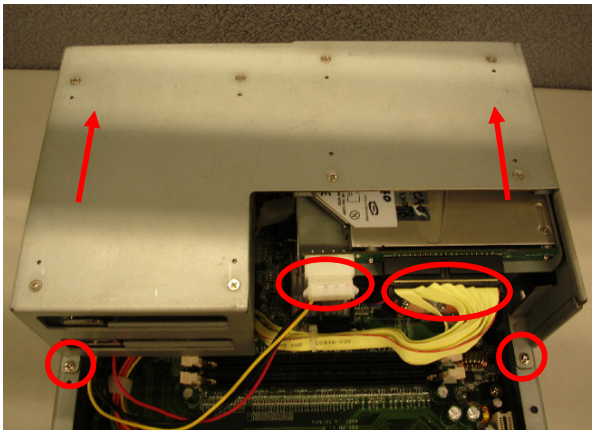
a. Use your finger to push the DIMM slot ejector clips into the down position.



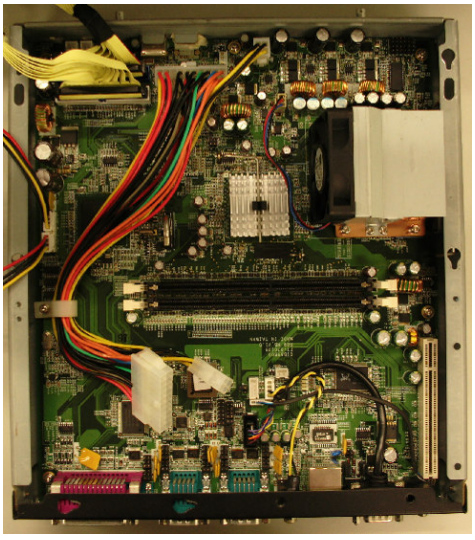
b. Remove the memory module from the slot.

5.8. Replacing the Motherboard

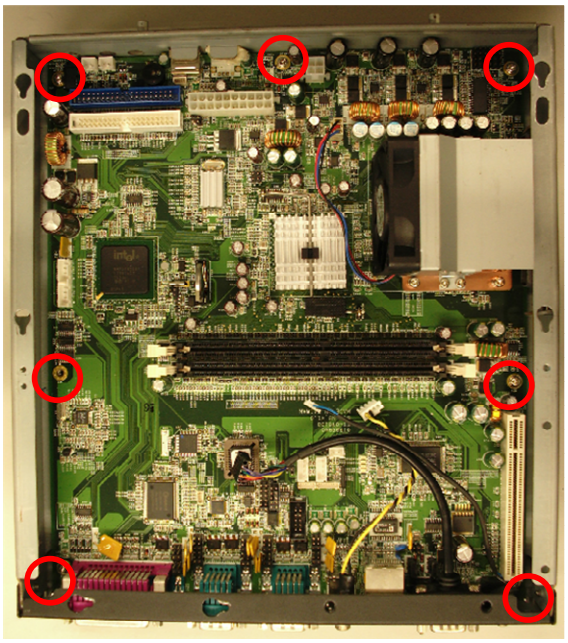
To replace the motherboard, please first follow the steps as described in chapter 5.1, 5.2, 5.3(a+b), 5.5(a) and 5.6(a)



a. Disconnect the cables (2), remove the screws (2) and slide the HDD module in the direction as shown by the arrows to release the module from the motherboard Chassis



b. Remove the screw (1) and disconnect the cables (9) as shown in the picture.



. Remove the screws (7)

. Remove the hex nuts (17) to release the motherboard from the chassis

6. Specification

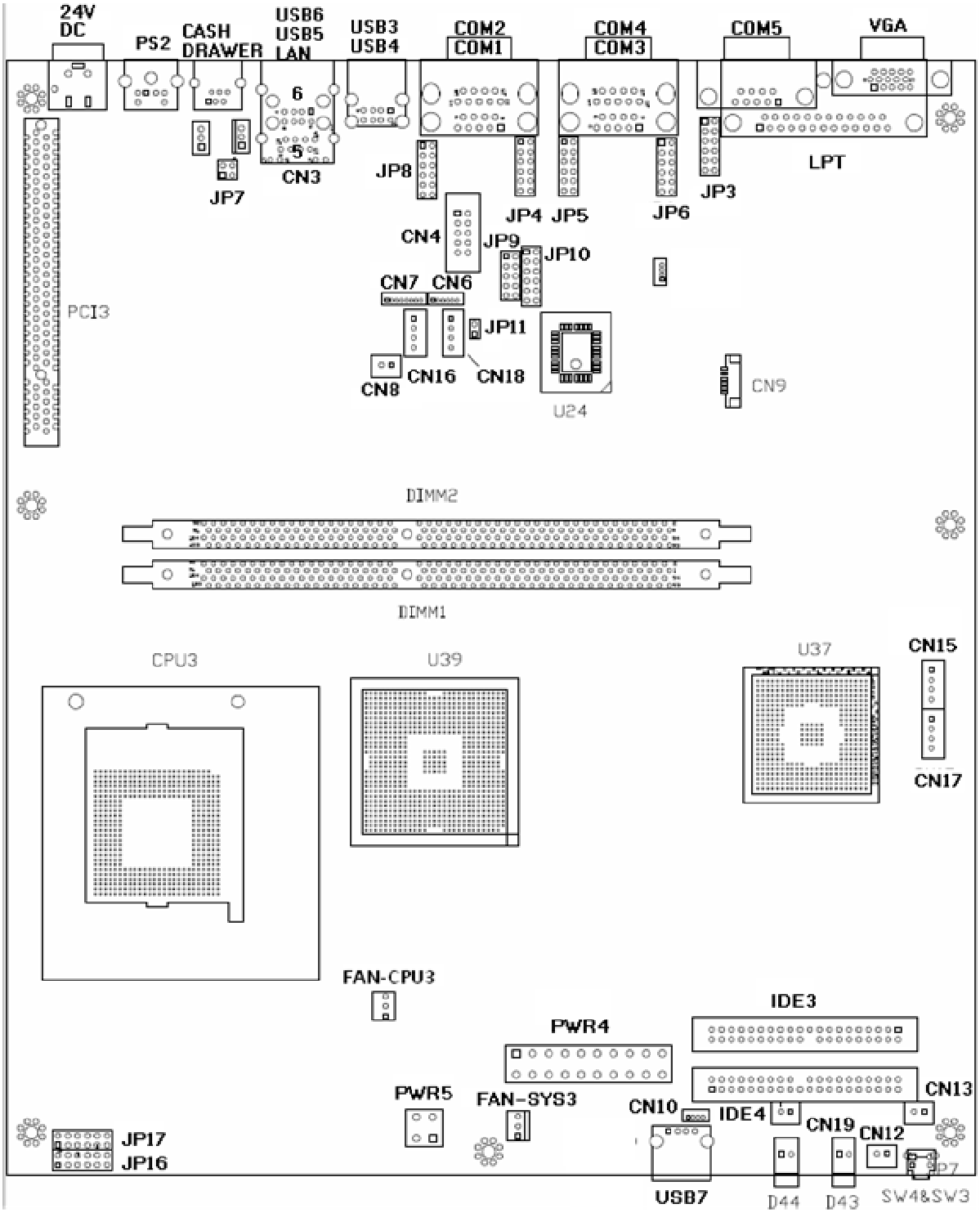
Motherboard	**B89**
CPU Support	Intel SK478 CPU Celeron 2.5G
Chipset	INTEL 852GM + ICH4
System Memory	up to 2GB DDR 400MHz RAM, 2 RAM-DIMM
Storage	
HDD	2x3.5" HDD _PATA
ODD	1xSlim CD-ROM/CD-RW/DVD_ROM Drive bay(option)
Expansion	
PCI slot	1
External I/O Ports	
Front I/O	
USB	1 (USB 7)
Power Button	1
Rear I/O	
PS/2 keyboard	1
USB	4(USB3~6)
Powered Serial / COM	5 (COM1/ COM2 / COM3 / COM4 / COM5)
Serial RS232/RS485/RS422	1 (COM6)
Cash drawer port	1
VGA	1 (DB-15)
Line-out	1
LAN (10/100)	1
Parallel	1
DC 24V output	1
DC 12V output	1 (for OLC 8.4 VESA power)
Optional Module: USB Hub	
Powered USB (12V)	2
Powered USB (24V)	1
Powered USB (5V)	1
USB	4

Peripheral (special feature)	
System ID	1
Power button	1 (pin header)
Control/ Indicator	
Power button	1 (Front)
LED HDD/Power	2
Environment	
EMC & Safety	FCC Class A, CE, LVD
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
Operating Humidity	20% - 85% RH non condensing
Storage Humidity	5% - 90% RH non condensing
Dimension (W x D x H)	270 x 300 x 120mm
Power requirements	
Power Supply	230W

7. Motherboard, Jumper Settings, Connectors

7.1 B89 Motherboard layout

B89 Motherboard



7.2 Jumper Settings

□ = Factory Default Setting

1. COM1 / COM2 / COM3 / COM4 / COM5 Power Setting

COM Port	Jumper
COM1	JP4
COM2	JP8
COM3	JP6
COM4	JP5
COM5	JP3

Pin	Function	Jumper Setting
1	DCD#	□1-2
	+5V	3-4
	+12V	5-6
9	RI#	□7-8
	+5V	9-10
	+12V	11-12

2. COM 6 RS232/ 485/ 422 Setting

Function	□RS232	RS485	RS422
JP9 (1-2)	v		
JP9 (3-4)	v		
JP9 (4-6)		v	
JP9 (5-7)	v		
JP9 (7-8)		v	
JP9 (9-10)			v
JP10 (1-2)	v		
JP10 (3-4)		v	
JP10 (5-6)			v
JP10 (7-8)			v
JP10 (9-10)			v
JP10 (11-12)			v

3. 2ND Display Power Setting

Function	JP11 (SHORT)
+12V	1-2
NC	□1

4. CMOS Operation Mode Setting

Function	JP13 (SHORT)
COMS Normal	□N/C
COMS Reset	1-2

5. Power Mode Setting

Function	JP15 (SHORT)
ATX Power	□N/C
AT Power	1-2

6. Cash Drawer Power Setting

Voltage	JP7 (SHORT)
+12V	□1-2
+ 24V	3-4

7. ACPI Mode Setting

Function	JP12 (SHORT)
Disable	1-2
Enable	□N/C

8. CPU Frequency Setting

Function	JP14 (SHORT)
FSB400	□1-2, 3-4
FSB533	3-4

9. CPU Voltage Setting

CPU Type	JP16	JP17
P4	□1-2, 3-4, 5-6 7-8, 9-10, 11-12	□N/C
P4-M(1.3V) Perf. Mode	N/C	3-4, 9-10 1-2(NC), 5-6(NC) 7-8(NC), 11-12(NC)

Note: OPEN SHORT

7.3 Connectors and Pin Assignments

CN4: COM6 RS232/422/485

Pin 1	DB9_1	Pin 2	DB9_2
Pin 3	DB9_3	Pin 4	DB9_4
Pin 5	GND	Pin 6	RS232_6_DSR#
Pin 7	RS232_6_RTS#	Pin 8	RS232_6_CTS#
Pin9	RS232_6_RI	Pin 10	N/C

CN6: Speaker & MIC Connector

Pin 1	LIN_OUT_L	Pin 2	GND
Pin 3	GND	Pin 4	LIN_OUT_R
Pin 5	GND	Pin 6	MIC1

CN7: CD-IN & Line-In Connector

Pin 1	CDIN_L	Pin 2	CDIN_REF
Pin 3	CDIN_R	Pin 4	CDIN_REF
Pin 5	GND	Pin 6	LINE_IN_L
Pin 7	LINE_IN_R	Pin 8	GND

CN8: Hardware Reset

Pin 1	GND	Pin 2	PWR_OK

CN10: USB5

Pin 1	+5V_USB1	Pin 2	USB20_R_P1-
Pin 3	USB20_R_P1+	Pin 4	GND

CN12: Power LED

Pin 1	+5V	Pin 2	GND

CN13: Power Button

Pin 1	GND	Pin 2	SW_PWRBT#

CN15: HDD Power Connector

Pin 1	+12V	Pin 2	GND
Pin 3	GND	Pin 4	+5V

CN16: CD-ROM Power Connector

Pin 1	+12V	Pin 2	GND
Pin 3	GND	Pin 4	+5V

CN17: HDD Power Connector

Pin 1	+12V	Pin 2	GND
Pin 3	GND	Pin 4	+5V

CN18: Power Connector external 12V Power connector

Pin 1	+12V	Pin 2	GND
Pin 3	GND (not used)	Pin 4	+5V (not used)

CN19: IDE LED

Pin 1	HDD_LED#	Pin 2	+5V

FAN_CPU3: CPU FAN CONTROL

Pin 1	GND	Pin 2	+12V
Pin 3	FB		

8. BIOS Settings

8.1 BIOS Setup Utility

The BIOS setup defines how the system is configured. You need to run this program the first time you configure this product. You may need to run it again if you change the configuration. You need to connect a PC keyboard to the keyboard connector to run the BIOS setup utility.

8.2 Starting the BIOS Setup

1. Turn on or reboot this product.
2. Press the DEL key immediately after the product is turned on, or press the DEL key when the following message is displayed during POST (the Power on Self-Test).

Press DEL to enter SETUP.

3. The main menu of the BIOS setup is displayed.
4. If the supervisor password is set, you must enter it here.

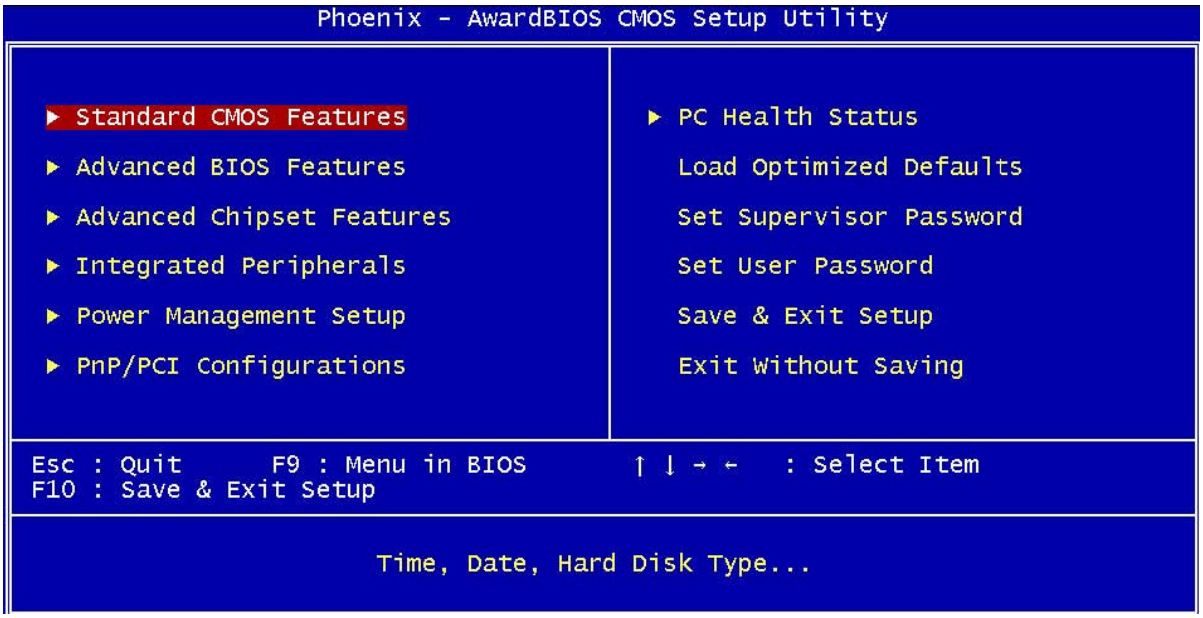
If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

8.3 When a Problem Occurs

Load Optimized Defaults

8.4 BIOS Main Menu

When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the Enter key to accept and enter the sub-menu.
Note: The BIOS menu below is from B99 RAID BIOS version B990V10.BIN. If you have a different BIOS version, the contents of the menu may different.



Standard CMOS Features

Use this menu for basic system configuration.

Advanced BIOS Features

Use this menu to set the Advanced Features available on the system.

Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize the system's performance.

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management setup

Use this menu to specify your settings for power management.

PnP/PCI Configurations

This entry appears if your system supports Plug and Play and PCI Configuration.

PC health status

Displays CPU, System Temperature, Fan Speed, and System Voltages Value.

Load Optimized Defaults

Use this menu to load the BIOS default values, i.e., factory settings for optimal performance

system operations. While Award has designed the custom BIOS to maximize performance, the factory has the option to change these defaults to meet their needs

Set Supervisor Password

Enables you to change, set, or disable the supervisor or user password

Set Password

Change, set, or disable the password. It allows you to limit access to the system and to the setup, or just to the setup.

Save & exit setup

Save CMOS value changes to CMOS and exits setup.

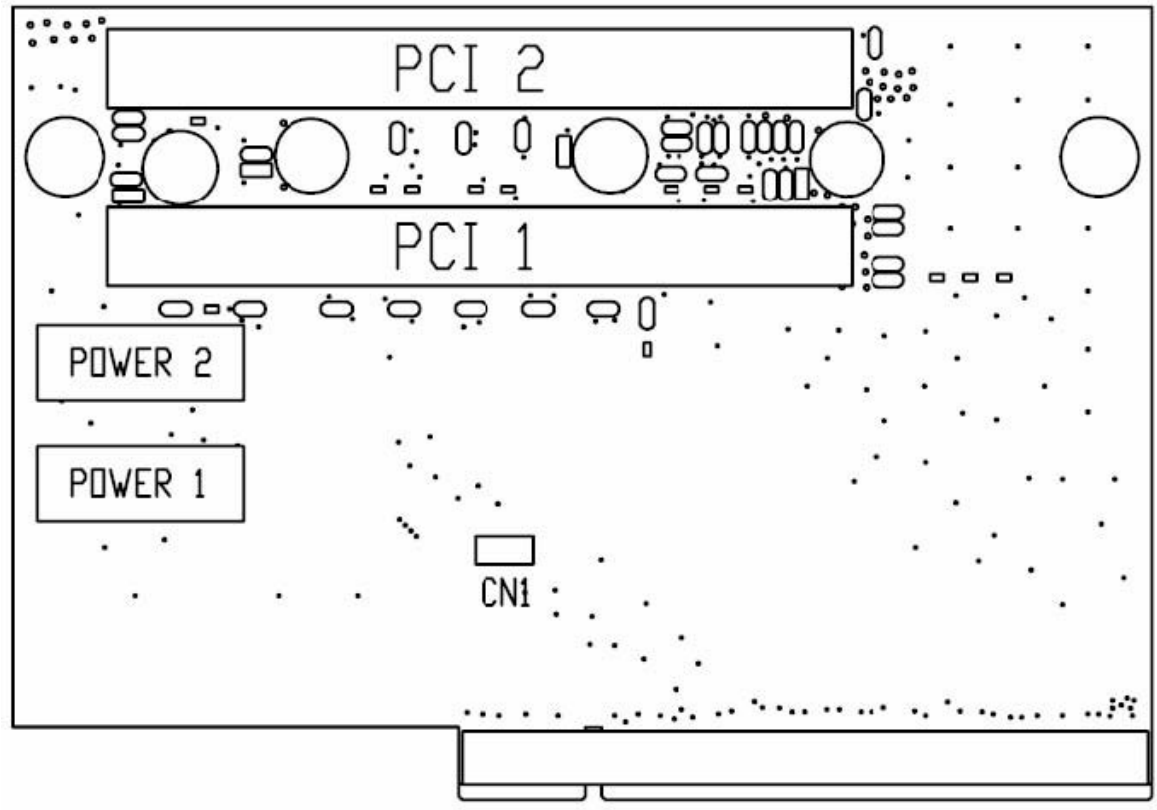
Exit without saving

Ignores all CMOS value changes and exits setup.

Appendix A: PCI Card Dimensions

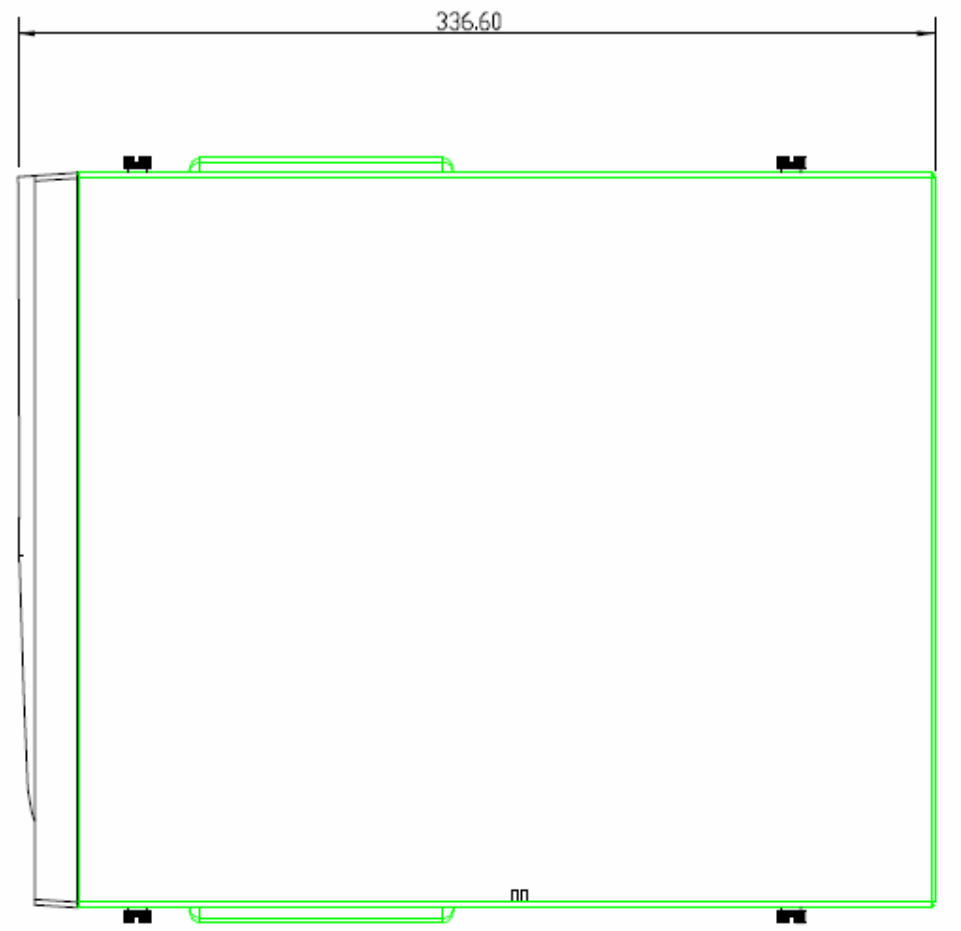
Maximum dimension of the PCI add-on card: Component Side: 130mm x 90.26mm (D x W)

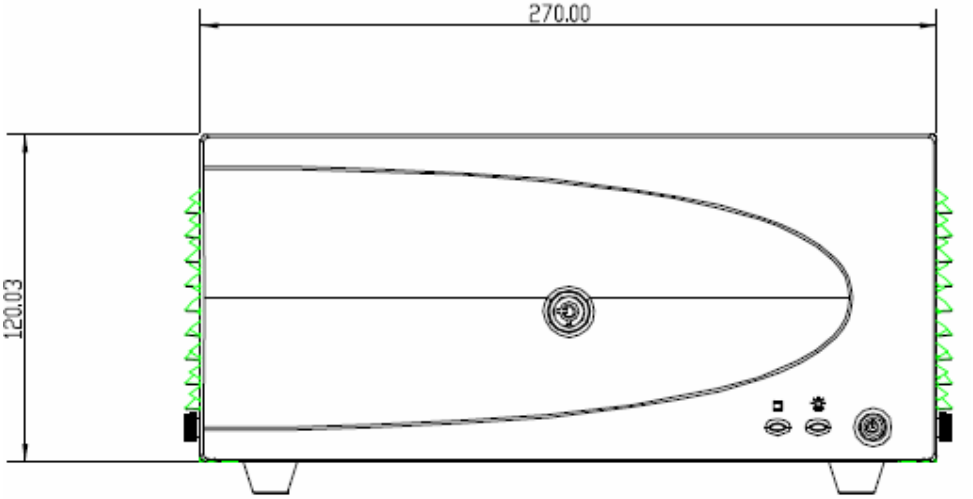
(Picture 1)

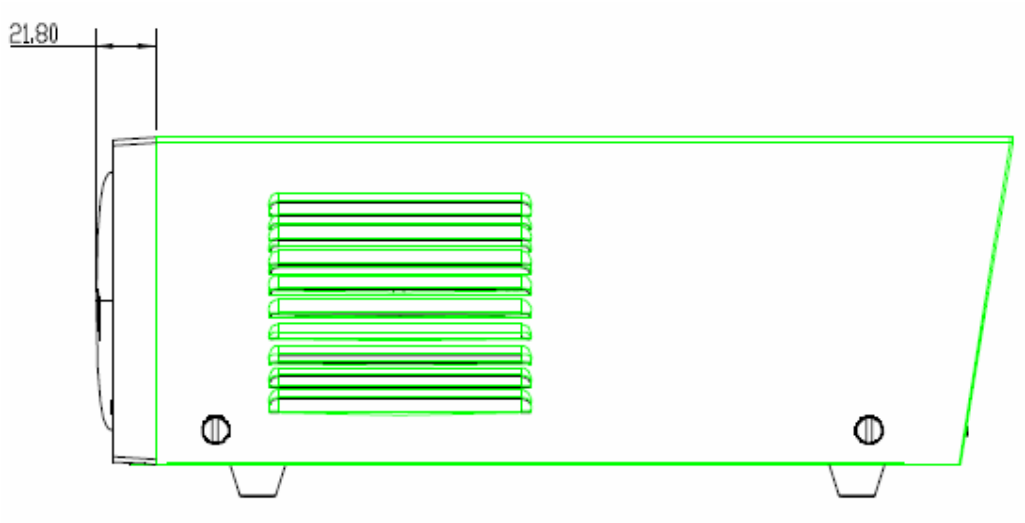


Appendix B: Dimensional Drawings

All dimensions in mm






21.80